## Docket No. 272 - Development and Management Plan Inspection

The Connecticut Light and Power Company Certificate of Environmental Compatibility and Public Need for the construction of a new 345-kV electric transmission line and associated facilities between Scovill Rock Switching Station in Middletown and Norwalk Substation in Norwalk, Connecticut, including reconstruction of portions of existing 115-kV and 345-kV electric transmission line, the construction of Beseck Switching Station in Wallingford, East Devon Substation in Milford, (and Singer Substation in Bridgeport), modifications at Scovill Rock Switching Station and Norwalk Substation, and the reconfiguration of certain interconnections.

## **Segment 4a Underground Line**

Date: September 6, 2006

**Inspector:** Katie Bednaz

Location: Singer Substation to Fairfield/Westport Town Line

Rain Event: A total of 0.53" of rain was reported over 8/30-9/5, with the greatest daily precipitation

of 0.3" on 9/3 (NOAA)

| Areas of Inspection                                     | Observation  | Recommended Action  | Corrected Action   |
|---|--|---|--|
| Access Roads<br>and Adjacent<br>Roadways                | All work is within or adjacent to existing paved roadways at this time.  | See erosion control section.  | NA   |
| Vault Openings and<br>Trench Construction<br>Bridgeport | Excavated trench was present on Railroad Ave. between Worden Ave. and Iranistan Ave. Trench excavation continues east on Railroad Ave, between Worden Ave. and Howard Ave. Sediment on roadways from construction activities is swept off of roadway upon completion of work in the area or at the close of the workday. 9/06/06 | Continue to monitor and be proactive. Dust control has been an issue in other areas. Continue to sweep as soon as feasible. 9/06/06 | Roadway was swept regularly. (Proactively)  Catch basins are protected.(Proactively) |
|   | Trench activities continue<br>on Railroad Ave. between<br>Lafayette St. and Warren<br>St. 9/06/06  | None. 9/06/06   | Catch basins are protected.(Proactively)   |
|   | Utility work at the corner of Broad St and Atlantic St. is complete. Small patches of soil remain exposed. 9/06/06   | See erosion and sediment controls section. 9/06/06  | Catch basins are protected.(Proactively)   |
|   | The installation of Vault  | See erosion and sediment  | Exposed soils have   |

| <b>Areas of Inspection</b>                     | Observation  | Recommended Action  | Corrected Action                               |
|--|--|---|--|
| Fairfield                                      | #7537 located on Rt. 130 to the east of the Rt. 1 and Rt. 130 intersection has been completed. Any exposed soils have been seeded and mulched. 9/06/06 | controls section. 9/06/06   | been restored.                                 |
|  | Work on vault #6428 has<br>begun in a parking area<br>adjacent to Old Post Rd.<br>between Rennel Dr. and<br>John St. 9/06/06                           | See erosion and sediment controls section. 9/06/06  | Catch basins were protected.(Proactively)      |
| Erosion and Sediment<br>Controls<br>Bridgeport | Filter fabric or filter socks are installed in all catch basins adjacent to the construction activities. 9/06/06                                       | Continue to also place<br>gutter buddy (or similar)<br>in any catch basins with a<br>curb/gutter drop inlet to<br>prevent sediment from<br>entering basin. 9/06/06                                    | Catch basins were protected.(proactively)      |
|  | Any exposed soils have potential for airborne dust migration. 8/23-9/06/06   | Prevent dust migration by regularly watering down exposed soils and sweeping immediately. If exposed soils are not to be worked within 14-21 days, they should be stabilized. 8/10/06–9/06/06         | Needs regular attention                        |
| Fairfield                                      | Problems with dust were not observed this week. 8/30/06  | None 9/06/06  | NA   |
|  | Silt fence and haybales<br>are in place for work at<br>vault #7537. All<br>disturbed soil has been<br>seeded and mulched with<br>hay. 9/06/06          | Monitor area during and after rain events to determine if sediment is migrating into roadway. If so, additional controls should be implemented. 9/06/06   | Exposed soils were seeded and mulched. 9/06/06 |
|  | A catch basin at Old Post<br>Rd has filter fabric in<br>place but has an<br>unprotected curb/gutter<br>drop inlet. 8/30/06 –<br>9/6/06                 | Reinforce the fabric in<br>this basin and install<br>gutter buddy (or similar).<br>(However, if this is<br>considered state highway,<br>gutter buddies may not<br>be permitted.) 8/30/06 –<br>9/60/06 | Needs attention                                |
|  | Work on vault #6428 has  | If remaining sediment on  | Needs attention                                |

| Areas of Inspection  | Observation   | Recommended Action   | Corrected Action   |
|--|---|--|--|
|  | begun in a parking area<br>adjacent to Old Post Rd.<br>between Rennel Dr. and<br>John St. Paved area<br>surrounding excavation<br>site appeared to be swept<br>when sediment was wet,<br>leaving some. 9/06/06            | the asphalt migrates, or<br>becomes airborne,<br>creating dust, the area<br>should be re-swept to<br>remove remaining<br>sediment on asphalt.<br>9/06/06 |  |
| Kings Highway Storage<br>Yard (Off Kings<br>Highway, near Rt. 1<br>rotary) | Negligible sediment<br>tracking was noted on<br>Kings Highway from the<br>yard. The improvements<br>to the stone construction<br>entrance and the material<br>placed to reduce mud in<br>the yard have helped.<br>9/06/06 | Continue to sweep<br>roadway when<br>necesary.9/06/06  | Roadway has been<br>swept and no notable<br>sediment was present.<br>9/06/06   |
|  | Silt fence has been installed along most of the perimeter of the storage yard. However, portions of the fence has not been installed properly; either slumping or not toed-in. 9/06/06                                    | Controls should be installed properly to contain yard and prevent sedimentation to sensitive areas. 8/30/06  | Silt fence has been installed but portions still needs attention. 9/06/06      |
|  | A stockpile is located adjacent to the perimeter fence with no controls containing it from potential resource areas. 8/30- 9/06/06  | Erosion controls should<br>encircle soil stockpile<br>and/or soil pile should be<br>stored away from<br>adjacent sensitive<br>areas.8/30- 9/06/06        | Needs attention  |
|  | A designated concrete<br>wash-out basin was<br>constructed but is located<br>adjacent to the perimeter<br>chain link fence. 9/06/06   | The basin should be relocated away from sensitive areas. 9/06/06   | Concrete washout<br>basin has been<br>constructed but still<br>needs attention |
| Inland Wetland and<br>Watercourse<br>encroachment and<br>mitigation        | The Kings Highway<br>storage yard is located<br>adjacent to potential<br>resource areas and a<br>concrete lined waterway.<br>8/30- 9/06/06  | See erosion control section. 8/30- 9/06/06   | NA   |
| Staging, Storage, and<br>Parking Areas                                     | A contractor storage yard<br>on Bostwick Ave contains<br>frac tanks, trailers, and<br>available parking. Reserve<br>spill kits are located in<br>the equipment trailers.  | None 9/06/06   | NA   |

| <b>Areas of Inspection</b>  | Observation  | Recommended Action                                       | Corrected Action |
|---|--|--|------------------|
|   | 9/06/06  |  |                  |
|   | A contractor storage yard<br>is located off of Kings<br>Highway near the Rt. 1<br>rotary. 9/06/06  | See erosion control section for recommendations. 9/06/06 | NA               |
| Soils   | Soils are exposed as part<br>of the excavation for<br>trench, vault, and utility<br>work. 9/06/06  | See erosion control section for dust control. 9/06/06    | NA               |
|   | Soils were being contained, tagged and transported appropriately. 9/06/06  | Continue to monitor.<br>9/06/06                          | NA               |
| State species of concern, threatened and endangered species.                                  | According to the D&M plan, state listed species are not located in this work area. 9/06/06   | None 9/06/06   | NA               |
| Vegetative clearing<br>(including trees to save<br>or danger trees noted)<br>or stabilization | Three trees were removed as part of the Vault #6428 construction activities. These trees were specified on the project plans and were located within landscaped islands. 9/06/06 | None 9/06/06   | NA               |
| Dewatering  | Active dewatering was not noted at the time of inspection. 9/06/06   | None 9/06/06   | NA               |
| Blasting  | No blasting has been proposed. 9/06/06   | None 9/06/06   | NA               |
| Spills and Material<br>Storage  | Spill cleanup<br>materials/kits were<br>observed in the storage<br>yard; no spills or material<br>storage problems were<br>observed on site.<br>9/06/06                          | None. 9/06/06  | NA               |
|   | Excavated railroad ties are piled up and stored off the roadway to be removed from the site. 8/17/06 – 9/06/06   | None 8/17/06 – 9/06/06                                   | NA               |
| Additional<br>Observations  | None 9/06/06   | None 9/06/06   | NA               |

| Next likely scheduled |                              |
|-----------------------|------------------------------|
| inspection:           | Wednesday September 13, 2006 |

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

| Field Inspector: | Katie Bednaz |  |
|------------------|--------------|--|
| Reviewer:        | Diana Walden |  |



Photograph taken on Railroad Ave. looking towards Wordin Ave. of trench excavating activities.



Example of appropriate catch basin protection associated with the utility work on and in the vicinity of Atlantic Ave and Broad Street.

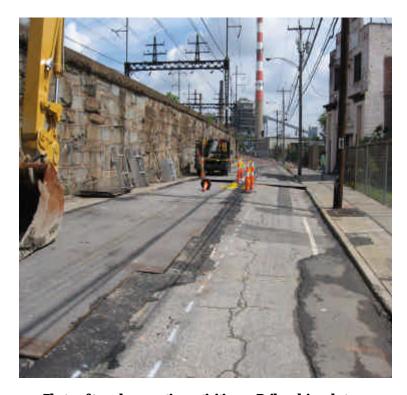


Photo of trench excavation activities on Railroad Ave. between Lafayette Ave. and Warren Ave. Photo taken facing Lafayette Ave.



Appropriate catch basin protection at the corner of Lafayette Ave. and Railroad Ave.



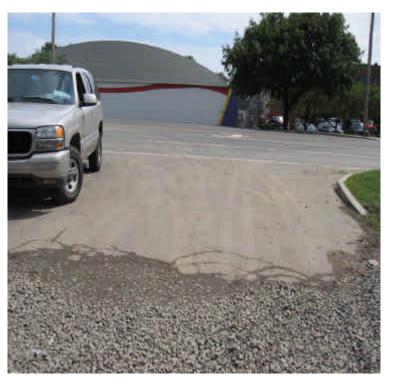
Vault #7537 construction area on the shoulder of Rt. 1. Work is complete in this area and disturbed soils have been seeded and mulched. Continue to monitor and repair/reinforce controls if runoff to the roadway is noted.



Catch basin located on Old Post Road. This basin accepts most stormwater associated with the vault #7537 construction. Controls should be installed if appropriate with CTDOT specifications.



Waterway located off Kings Highway adjacent to the storage yard.



Construction entrance of the Kings Highway storage yard. Very minor amounts of sediment were tracked on the roadway in comparison to last week's inspection. The controls were improved



Kings Highway storage yard and construction entrance. The material used to reduce mud in the yard has visibly reduced vehicle tracking.



Silt fence/erosion controls still need to be properly installed in this area between the yard (and stockpile) and the waterway



Silt fence has been installed between the Kings Highway storage yard and waterway. Portions of the silt fence have not been installed properly, either slumping or not toed-in.



Photo of a lined pit, designated for concrete wash-out which has been installed since last week's inspection. However, it is located adjacent to the perimeter fence and would be best moved away from the sensitive areas.





Photograph of vault #6428 construction on Old Post Road. It appears that sweeping the sediment from the asphalt had been attempted, but some was left behind. Watch for sediment migration or dust production and re-sweep if necessary.

Photo of vault #6428 construction. Three trees were removed from the landscaped islands to accommodate the construction activities.



Photo of properly protected catch basin located in parking lot adjacent to vault 27 construction activities.